Soroll Sawing MACHiNE.-David R. Williams, Sr., Paris, Ky.-This in-
vention relates to an improved mode of combining guide rode and a bearing vention relates to an improved mode of combining guide rods and a bearing
plate with a saw cross head, so that the cross head will not have the friction of the bearing plate, except when pressed against it by the work: and it also consists in providing a clamp, which holds the saw, with an adjustable pin
that will afford a rest thereto when the width is lessened by wear or sharpthat wi
ening.
Corn Planter.-George G. J. Millar, Lockbourne, Ohio.-This invention has for its object to furnish an improved corn planter which maybe adjusted to plant the rows of hills at any desired distance apart, and to drop any de to receive the seed from the hoppers and discharge it upon the ground, and to receive the seed from the hoppers and discharge it upon the ground, and
are attached to the outer ends of a rod or shaft wi.ich is-made in parts slid'ng upon each other, so that its length may be extended or contracted as gether. By means of suitable appliances the driver can operate the dropping clinders and drop the saed with his foot or by hand. The driver's sea is adjustably supported from the platform, so that it may be moved back or relieving the horses' necks. Other mechanism allows the planter to be raised from the ground for convenience in turning or passing from place to
place. The machine may be adjusted to plant the seeds at any desired depth in the groand. The covering plates are secured by a single belt, so that they may be set back or forward, according to the am unt of soil de
sired to be drawnover the seed. Cutters are provided, designed to cut of sired to be dra nover the Cutters are providea, designed to cut of affect the proper operation of the nlows.
Fencte-Willam T. Willie, Independence, Texas.-It is economicalls or which he substitutes another, should be fully utilized on the spot. for which he substitutes another, should be fully utilized on the spot.
Hence the inventor purposes setting the posts diagonally across the fence alternately, in opposite directions, which brings the lower or base portion of every successive pair of posts much nearer each other than they would bottom and longer rails forthe top portion of the panel.
Wash Boileri.-Wilson C. Berger, Bethel, Pa.-This invention consists o a secondary or false bottom, adapted to fit inside that of the sheet metal boilersnugly, with the legs to hold it about three inches above the perma nent bottom, which said false bottom has three parallel rows of hole through it vertically, said rows being in the direction of its long axis; arsi plates, rising as high as the top of the boiler, and joined together at the top and ends, so that water heated in the space below the fatse bottom will be torced up in the said inclosed space, and out through the perforated sides among the clothes, and down to the heating space again, through the our side row of holes in the false bottom, so as to act upon the clothes very effl clently
Knife Sharpener.-Jonathan Quipp, Buffalo, N. Y.-This invention fur emery roller, supported on a suitable frame, with a journal or pivot at eaci end. Stands or ears are attached to the bed plate, through which the jour nals of the roller pass. The roller is made of wood or of any suitable mate rial, and is covered with emery or equivalent material, the same as emery wheels; or thay me mater material. The sharpener may be placed upon the dining table, and is
intended to take the place of the ordinary steel sharpener.
BEX Hive.-AmosR. Moulton, Fall Branch, Tenn.-This invention relate enable every portion of the same to be opened or unfolded with the greates facility for the purpose of inspection, removal of honey and refuse mat-
Car Coupling. - James Broadley, of Bradford, Eng. -The mechanical ar rangements comprising this invention consist of a sliding shaft or bar
working in suitable bearings secured to the ends of the carriage or vehicle at a position somewhat above the usual coupling chain arrangement, which can be left attached to the carriage or vehicle, and can be made use o When two carriages are to be coupled, one of which is not provided with the coupling arrangement. This sliding shaft or bar has a bolt connected thereto, which bolt is made to work in an orifice provided for , itin the sides
of a socket or guides secured to the carriage or vehicle." $A$ slotted link is also secured to the carriage of vehicle, to which it is attached by a joint, so that it may be lifted up out of the way and secured by a catch on the slidina shaft when a carriage or vehicle unprovided with these arrangements is to coupled in the ordinary way. The coupling slotted link is, when two car riages or vehicles are brought together for coupling, down in its ordinary
position, and is inserted in the sockets or guides above mentioned by simply bringing the two carriages or vehicles together, and then the sliding shaft can be actuated so as to couple the carriages by handiling its end from the side of the carriage without going between the carriages, and the un coupling can be effected by a simhlarthough reverse action. Ifthought de sirable, lever arrangementsmight, it is obvious, be adopted, to enable th
guard or attendant to work these arrangements without getting down from his place.
Safrty Switoh Fastrening. - William B. Sloan and Ldward H. Sweetse Hamburg, Iowa.-The invention consists in a railroad switch fastening, con
structed with springjaws which clamp the annular recess ofa bolt passed therethrough and require to be separated by a key before the bolt can b removed.
Folding Paif.-Ransom Sabin, Benona, Mich.-This invention consist in a combined water pail or bucket and teed bag, tormed of a waterproo
flexible cloth or rubber cylindrical body, and a sheet metal bottom. It i capable of use in drawing water from a well, may be set over a flame, ca be folded flat so as to be placed under carriage cushions or otherwise conve niently packed away, and is withal very light as well as strong, durable and cheap
Lathes for Turning Bent Stioks.-Thomas Ott, of South Green Town ship, Pa., assignor to himself and Nathan Houck, of same place.-This in
vention has for its object to produce a simple apparatus for turning the hooks at the ends of umbrella asticks andother bentsticks; and consists in a annular chuck carrying a cutter at its narrow inner edge, and hollowed a the faces to be asthin as possible along the inner edge. An annular chuck or block made of wood or metal is slotted out to receive a knife whose cut ting edge projects beyond the inner periphery of the chuck. The knife in
preferably slotted, to be adjustable as its edge wears. The faces of the an nular chuck are hollowed to make it as thin as possible in the middle. Beingthin in the middle, the chuck permits the stick to be held at such vary ing angles as to allow its entire bent portion to be turned to unitorm thick Lamp Heater for Nursfry Flabi.-Seymour Hughes, of Jefsey city N. J.-This invention relates to a rew apparatus for hearing the contents of
nursery flasks and similar vessels; and eonsists in the use of a portable water heater containing a lamp, flues, and a platform for the support of the flask. The latter can be placed wituin the heated water to have its contents gradually and gently warmed without exposing the flask to injury or Wasting heat. The invention also consists in providing the flue of th
water heater with a transparent section so that it may also serve This is a very neat apd useful invention, one of the small kind adapted fo genera
Harrow.-Horatio N. Swift, Matteawan, N. Y,-Heretofore the connec tion between the sections of the well known flexible harrow has been made by means of round rines through the three eyes, which approach each other Dutit has been found that the sections, when connected by a ring in this manner, were liable to catch and cramp in turning the harrow, and cause
much trouble in releasing and straightening out the same. To remedy this diftculty, instead of the round ring, a triangular connecting dink is employed composed of a single piece of metal, but with a separate ring for each eye By this means the eyes of the sections are separated, so that in turning or twisting the harrow will not cramp, but assume its natural position without connections, the outer angles of the sections being connected by commo links and chains.

Land Roller.-Halloway W. Mathews, Frenchtown. N. J.-Thei: ven tion consists in providing a roller frame with four pendent bearinge, each
vertically slotted, and all the corresponding parts of said slots being in the same horizontal plane, so that the journals of each end of a roll can ireely play up and down, and so that the weight of frame and driver will
when on a level, be equally distributed over the several journals, but wil be concentrated upon any clod over which either end of either roll may
pass.
[OFFICIAL.]

## Index of Inventions

Por which Letters Patent of the United States were granted
for the week miding august 27 , 1872, and fact bearing that date.

## Actd for hardening stone, treating Alloy or bell metal, H. L. Macker

Alloy or bell metal, H. L. Macker..
Anthracene, manufacture of, Fenne
Auger, hollow. G. N. Stearns...........
Barrels, levice for handling,
Basket, fruit, O. A. North..
Bed bottom, $\mathbf{A}$. W. Obermann.
Bed bottom, spring, S. M. Brooks
Bedstead, bureau, W. F. Brown
Bedstead, bureau, W. F. B
Beehive, Mulkey and Case

## Beehive, W. T. Mosher.

Bell call, w. H. Nichols.
Belt shifter, T. P. Rodgers..
Betts, fastening for, J. C. M
Berth, ship's,I. A. Chomel
Billiard cue cutter, F. R. Gardner
Blacking, packing shoe, C. Herold
Boiler, culluary, I. Kinney.
Boiler, wash, L. H. Suits.
Boiler, wash, J. C. Tilton

Boltfor sashes, etc., U. Crame
Boot and shoe heel, J. M. Hunter
Boot and shoe sole, S. J. Shaw
Boot and shoe cleaning machine, Terheun and Ackerman
Bridge, C. W. Warer
Bridle, safety, B. R. Du Val
Brush and mop holder, O'Brian and Baker
Camera, photographic, M. Flammang
Car coupling, Musgrove and Sharp...
Carriage seat fastener, L. o. Belnap
Chair, J. Defoe.
Chill plate and flask, Long and Miller
Churn, w. E. Barr.........................
Cloth cutting machine, Fenno and How
Collar, hor se,P. B. Horton.
Collar, hores J. N. Ho
Compass, $\mathbf{0}$. Stoddard
Compound for polishing and cleaning metals, etc., J. B. Emerbon...
ream strainer, J. Peeventing, T. Pyle
Cuff, L. H. Foy
dentivator, W. R. Robinger W.
Dental plugker, W. D. Stillman...
Dryer, fruit, Paige and Wilkinson.
Electro-maget,
Electro-magnet, T. A. Edison.

Elevator, G. Scott
Engine, locomotive, s. Skillman
Excavator for railways,
Fence, T. D. Roberts...
Fence, T. D. Roberts...........
Fiuting machine, w. Weitling.
Fork, pickle, H. Laurence.
Fountain, G. Finley.
Furnace, hot air, J. R. Gaston
Furnace, hot air. W. W. Dodge......................
Furnace, roasting and desulphurizing w.
Furnaces, teeding the charge to metallurgic, G. Edward
Gas retort, J. Butler.....................................
Gas extinguisher and cut off, automatic, G. R. Pierce.
Gate, A. H. Phillip
Gate, M. Schneider
Gilding and ornamenting leather tor suspenders,
Grain scourer, smutter, etc. . Hunt and Ingraham
Hammer, drop, N. C. Stiles
Harness clamp, Po
Harrow, J. Harris...............
Harrow, wheel, T1. M. Brintnal
Harvester, J. F. Gordon
Heater for curling tongs, J. Fletcher
Hogs, ringing, H. W. Hill.
Horses, forming the curve in tailis of, I. B. Phillips.
Iron and steel, manufacture or, Br
Lamp, I. Lindsley..
Lamp shade, A. Combs
Lock, combination, J. B. White......
Locomotive balloon, P. Haenlein.
Logs, machine for turning, E. C. Dicey.......................................... 130,960 ,
Masts, ball for, E. C. Seely..
Masticator, steak, R. F. Coo
Masticator, steak, R. F. Cook.
Mat, metallic, F. G. Johnson.:
Matches, drying, McC. Young.
Metal, machine for punching, N. C. St1l
Molding, P. Conver.........................
Mortising chisel, Shuler and ©arpenter.
Movement, mechanical, w. B. Bartram
Muzzle, dog, C. De Quillfeld
ng and measuring, E. F. Wilder
Ogan action, W. N. Manning.
Organ, reed, D. Tripp...
Pan, cake, W. C. Butler
Paper pulp from wood, apparatus for making. H. W. Higley
aper cutting machine, E. R. and T. W. Sherian.
Pavements, composition block for, J. C. Tucker (reissue)
ipe and nozzle, discharge, A. Lovie.
Plater, seed, L. C.
Plow, R. R. Fenner.
Plow, н. н. Swe etland

Printing, inking apparat
Pump, steam, w. Arthur
Pat

Psrometer, E. Brown .......
Rack, feed, J. L. Rhodeback
Rack, feed, J. L. Rhodeback......
Siddle, harness, G. W. Dutton....
Sap bucket bracket, J. J. Pellett.
Sash holder, A. Perron..
Sash holder, A. Perron.... ....
Sasb bolder, G. W. Richardson
Saw set, W. Nash.............
Saw set, w. Nash.
Saw mill edger, $G$. Willett..
Saw mills, head block for, $G$
Sawing machine, stave, Gerlach and Knippe
Sa wing maehine, stave, Gerlach and Knip
Sa wing machine, stone, G. A. Davidson.
Scraper, earth, A. B. s. ©ith. ....
Scrubber and scraper, J. A. Lit
Scrubber and scraper, J. A. Little
Sewing machine, Q. Rice (refssue)
Sewing machne, Q. Ree (retsue)...............
Sewing machines, treade for. I. P. Fishourn..
Sewing machines, attachment for, P. Grosfeld.
,

Signaling apparatus for railroads, electric, F. L. Pope........................................90,941
Silk winding machine, J. W. Cox
Soda fountain, E. B. Chamness

Spinning and twisting, spindle for, E. Osgood.
Spinning machines, bobbin holder for, w. L. Y
Staples, process of making blind, J. Keith..
Staves, machine for jointing, w. C. Perkins....
Stone, manufacture of artificial, D. M. Sprogle
Stone, manufacture of artificial, Sprogle and Pie
Straw cutter, J. E. Tyler...
Straw cutter, F. L. Maynar
Stump extractor, Miller and Bow
Telegraph apparatus, G. Little ...............
Telegraph circuits, indicator for, G. Little.
Telegraph key, A. G. Davis.
Telegraph printing, H. Van Hoevenberg
Telegraph pole, iron, J. Weis...............
legraph paper, compostion
Telegraph relay and sounder combined, G. Little
Telegraph, magneto electric dial, Johnson and Whittemore Thill coupling, J. G. Schiller.
Thlll coupling, J. O. MaClasky......................
Tiles, machine for pressing reoflig, c. J. Merrill
Tiles, machicco hanger, F. G. Johnson...
Transplanter, C. E. Brown.
Truss, C. H. Carr
Valve and cut off, steam, R. T. P. Allen
Valve indicator, check, J. G. Blackbur
Valve, steam governor, C. H. Burton....
Valve, water pressure check, T. Bailey
Valve, water pressure check, T
Vehicles, wheelfor, H . H. Fetter.
Ventiler,
Ventilator, car, Williamson an
Wagon, dumping, D. D. Smith
Wagon standard, P. Sweeney ...........
Wardrobe and bookcase, F. F. Voight
Wasbing machine, A. Doney..
Washing machine, J. W. Pratt
Water wheel gates, op erating, J. W. Hill.
Water pipes, apparatus for venting and draining, H. English
Well point, tube, S. L. Bignall
Wheel traction, C. E. Brown.
Whifletree, J. M. Isenberg
Whifletree, J. M. Isenberg..............................

Whip, A. Scharff.......................
Wire tabric, woven, J. M. Farnham.

## DESIGNS PATENTED

,089.-Campaign Shirt.-A. Blumana, New York cits
6,090.-OATromaN.-C. J. Conradt, Baltimore, Md.
6,091 and $6,092 .-\mathrm{CARPRTs}$.-A. M. King Kidderin
,091 and 6,092. - Carpers.-A. M. King, Kiddermister, England
6,093.-SHawL.-M. Landenberger, Philadelphia, Pa.
6,094.-CARPET.-J. Powell, Kidderminster, England.

TRADE MARKS REGISTERED.
969.-Spool Thread.-Clark Thread Company, Newark
970.- Pomattis.-P. Davis \& Son, Montreal, Canada.
970.- Pomattu.-P. Davis \& Son, Montreal, C
971 .-Drvas, ETO.-J. Faber, New York city.
972. - Molasssis. - A. Thomson \& Company, New Orleans, La
973.-SIRUP.-A. Thamson \& Company, New Orleans, La.
$974 .-$ MoLAsszs. -A. Thomson \& Company, New Orleans, La.
75.-FANOY Goods.-Weil \& Woodleaf, San Francisco, Cal.

SCHEDULE OF PATENT FEES:




For Copy or Craim of any Patent $888 u$ ved oothin 30 yeara....................s 3 as the Claim covers,from
uppoard, but usually at the price above-............
1ull spectication


invoved and the number of vereos.
aull informastion as to price as dravoings in each case, may be naci or
addressino
MUNN \& CO..
Patont Solicitors. 3y Park Row. Now Yoris.
APPLICATIONS FOR EXTENSIONS.
Applications have been duly flied, and are now pending, forthe extension
of the following Letters Patent. Hearings upon the respect
are appointed for the days hereinaster mentioned:
22,185.-Preservation of Flish for Food.-N.B.Marsh . Nov. 13, 1872.
22,197.-Hoop Skirt.-S. Peaberdy. Nov. 13, 1872.
$22,674 .-T r$ triss Spring.-J. W. Riggs. Jan. $2,1873$.
EXTENSIONS GRANTED.
11,233.-Carpet Sweeper.-H. H. Herrick.
21,311 .-Sefuring Plane Irons to Stocks.-L. Bailey.
21,324.-SUN SHADE.-A. G. Davis.
1,329.-Sending and
21,352.-RatleroadCar Seat.-C. M. Mann.
21,367 .-Straw Carrimr.-F. W. Robinson.
21,372.-Fari Box.-J. B. Slawson.
$21,381 .-$ Bracriet.-F. M. Sweet.

